What is claimed is:

- A water-based ink comprising colored particles, which comprise a dye and a polymer having an acetal group.
- 2. The water-based ink of claim 1, wherein no less than 30% of oxygen atoms in the polymer form the acetal groups.
- 3. The water-based ink of claim 1, wherein the polymer having an acetal group is polyvinyl butyral.
- 4. The water-based ink of claim 1, wherein the colored particles are composed of a single phase.
- 5. The water-based ink of claim 4, wherein the polymer having an acetal group in the colored particles accounts for no less than 50 weight-% of the total weight of polymer included in the colored particles.
- 6. The water-based ink of claim 1, wherein the colored particles have a core-shell structure composed of a core-phase and a shell-phase.
- 7. The water-based ink of claim 6, wherein the polymer having acetal group in the core-phase of the colored particles accounts for no less than 50 weight-% of the total weight of polymer included in the core-phase of the colored particles.
- 8. A method for preparing an water-based ink, wherein the method comprising a step of;

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- dispersing colored particles, which comprise a dye and a polymer having acetal group, into an aqueous medium.
- 9. The method of claim 8, wherein the polymer having an acetal group is polyvinyl butyral.
- 10. The method of claim 8, wherein the polymer having an acetal group in the colored particles accounts for no less than 50 weight-% of the total weight of polymer included in the color particles.
- 11. The method of claim 8, wherein the method further comprising a following step after the dispersing step; adding a polymerizable monomer and polymerization initiator so as to form a shell phase on each of the colored particle.
- 12. The method of claim 11, wherein the polymer having an acetal group is polyvinyl butyral.
- 13. The method of claim 11, wherein the polymer having an acetal group in the colored particles accounts for no less than 50 weight-% of the total weight of polymer included in the color particles.